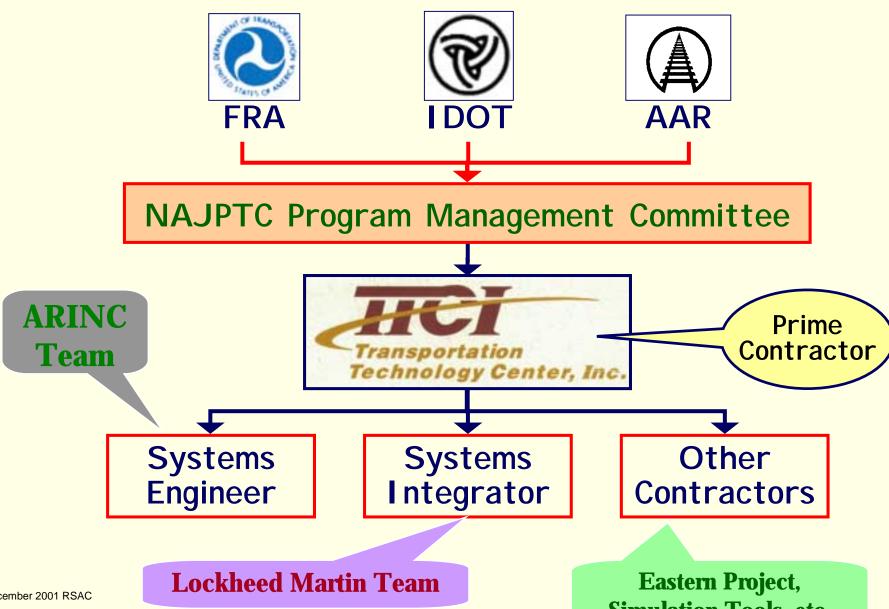
IDOT PTC Project

Project Overview

Alan Polivka, Project Manager, TTCI

PTC Program Management



December 2001 RSAC

Simulation Tools, etc.

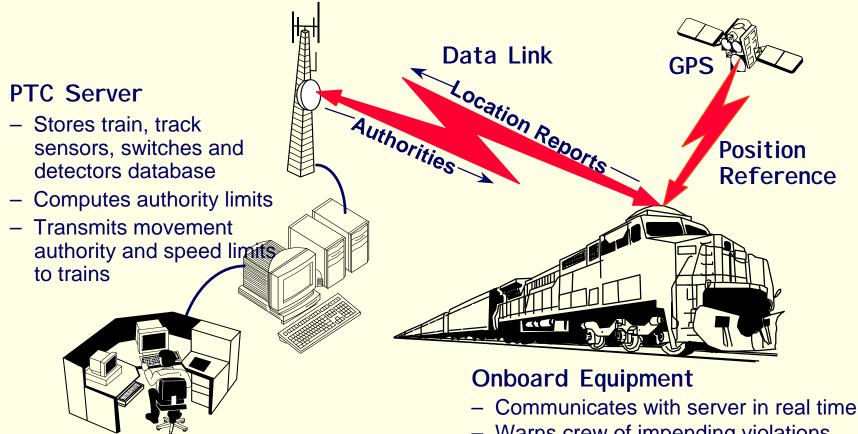
IDOT PTC Project Objectives

- Demonstrate PTC Safety Functionality
 - Prevent Train to Train Collisions
 - Prevent Derailments due to Overspeed
 - Protect Roadway Workers Operating Within Limits of their Authorities
- Demonstrate Revenue-Ready System for Operation of Passenger Trains > 79 mph Intermixed with Freight Trains
- Develop Interoperability Standards
 - Transition between Different PTC or Other Train Control Systems at Track Speed

IDOT System Features

- Warnings / Enforcement of Authorities and Speeds
 - Warnings provided in advance (except emergencies)
 - Enforcement is last resort
- Locomotive Activation of Crossing Warning Systems
 - Eliminates need to extend crossing track circuits for high speed operation
- Modular Design
- Pacing & Fine Resolution Train Tracking
 - Potential to improve velocity / capacity / service reliability
- Flexible Block
 - Permits closing up of trains reduces freight train delay during overtakes
 - Potential to alleviate need for wayside signals
- Cost Effective
- Non-Proprietary, Open Systems Architecture

PTC General CONOPS

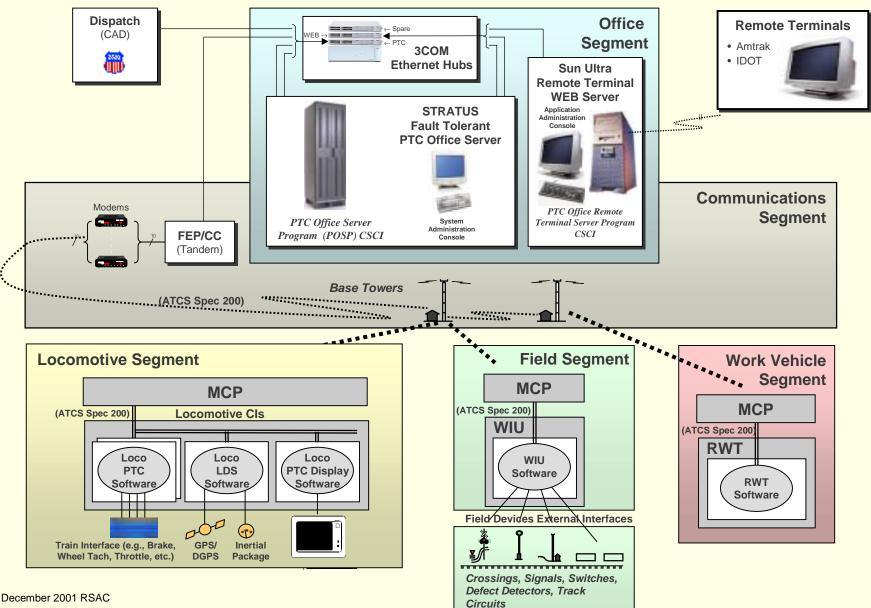


Computer-Aided Dispatching

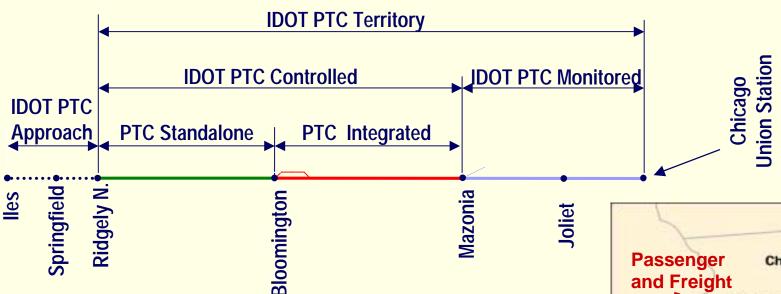
- Warns crew of impending violations
- Enforces authority and speed limits
- Reports location to server

Communication-Based Train Control (PTC) uses LDS & Radios in Determining & Reporting Occupancy.

IDOT PTC System Design Baseline

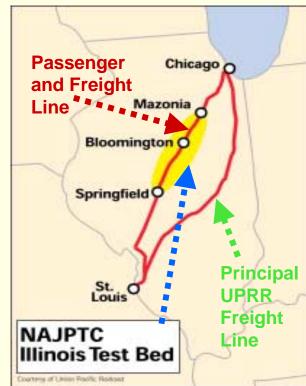


Overview of IDOT PTC Territory



Handle Mixed Traffic ...

- Passenger
- Freight
- Non-Communicating Trains



Summary

- Project is Near Midpoint in Schedule
- Preliminary Design Review (PDR) held in July (Major Milestone)
- Critical Design Review (CDR) for Build 1 Underway

Good Progress and Momentum to Date